30445 S/109/61/006/012/020/020 D201/D305

Dependence of resonator chain . ..

$$S' = \frac{S}{\sqrt{1 + P - Q\cos\phi\cos\theta}},$$

$$\alpha'_{n} = \alpha_{n}\sqrt{1 + P - Q\cos\phi\cos\theta},$$
(2)

 Θ - the angle of slot rotation in every other diaphragm; P and Q are coefficients taking into account the intrinsic common to the diaphragms currents and may be evaluated in approximation for simple configuration of coupling slots. Calculations using formulae (1) and (2) give good agreement of theory with experiment in the cases of narrow peripheral slots with angular lengths of the order of 90°. The practically important case is considered in more detail when S > 1, p > 1; For this case the effect of diaphragm currents results in a smaller resonant length of the slot wave

$$S'(0) = S'(\pi) = S/\sqrt{1+P}$$

which results again in somewhat narrower pass-band which is only partly compensating by the increased coupling coefficient $\alpha_{\pi}^{\bullet} = \alpha_{\pi}^{\bullet} = \alpha_{\pi}^{\bullet} + P$. With identical diaphragm positioning $(\theta = 0)$ and $\phi = 0$, the resonant wavelength of the slot increases (S'(0) = S/ $\sqrt{1+P-Q}$)

Card 2/8

30445 S/109/61/006/012/020/020 D201/D305

Dependence of resonator chain ...

and for $\varphi = \Im$ - it decreases (S'(\Re) = S/ $\sqrt{1 + P + Q}$). This effect results in an abrupt narrowing of the pass-band and for large values of indirect coupling between slots leads to a change in the sign of dispersion of the long wave pass-band. At v = 1800, the opposite effect takes place; the pass band is wider compared with the case when $\theta = 900$. The theoretical considerations given above are in good agreement with experiments as shown in Fig. 2. Experimental results have also shown that the dependence of coupling resistance R for the first space harmonic in angle 0 is fundamentally determined by changes in the ratio phase v ph to group velocity v gr. The dependence R(0), for the phase shift of the system period of $\varphi =$ 2 I is also given graphically. Thus the angle of rotation of slots makes it possible to vary -- within large limits -- the properties of the delay system which could be used for matching or gradual variation of the parameters. Of interest would be the study of a system, in which coupling slots in diaphragms are displaced according to a spiral. There are 3 figures and 1 non-Soviet-bloc reference. Card 3/8 4

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CIA-RDP86-00513R001756720010-2

30445 \$/109/61/006/012/020/020 D201/D305

Dependence of resonator chain ...

The reference to the English-language publication reads as follows: M.A. Allen, G.S. Kino, On the theory of strongly coupled cavity chains, IRE Trans., 1960, MTT-8, 5, 362.

SUBMITTED: May 8, 1961

4

Card 4/6 4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720010-2"

PP3PT

5/142/62/005/006/003/011 E192/E382

9.4230

AUTHORS:

Lizhdboy, K. Ya. and Trokhimenko, Ya.K.

TITLE:

Calculation of the coupling resistance in periodic

delay systems

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy,

Radiotekhnika, v. 5, no. 6, 1962, 682 - 687

TEXT: The efficiency of the interaction between an electron beam and the field of the n-th space harmonic in electron-beam devices (with an extended range of interaction) is estimated by the magnitude of the coupling resistance, which is defined by Pierce as:

 $R_{n} = \frac{\left|E_{n}\right|^{2}}{2\beta_{n}^{2} V_{gr}} \tag{1}$

where E_n is the amplitude of the longitudinal components of the electrical field of the n-th space harmonic, β_n is the phase constant of the n-th harmonic, W is the energy stored Card 1/3

S/142/62/005/006/003/011 E192/E382

Calculation of the

per unit length of the delay system and V_{gr} is the group velocity of the travelling wave in the system. The amplitude-distribution of the longitudinal component E(Z) of the travelling wave along the axis of the delay system with a periodic structure can be represented as a cosinusoidal graph, shown in Fig. 1. It is found by adopting this distribution that the coupling resistance for the n-th space harmonic is given by:

 $R_{n} = A_{1} \cdot \frac{c}{V_{gr}} \cdot \frac{1}{(\varphi + 2\eta n)^{4}} \sin^{2}\left(\frac{\varphi + 2\eta n}{2}\right) \cdot \frac{d}{\ell}$ (15)

where φ is the phase-shift for one period of the system for the principal harmonic, $A_1 = {}^4 \mathcal{O}/Ac$ is the proportionality coefficient depending on the configuration of the delay system, c is the velocity of light and ℓ and d are defined in Fig. 1. Eq. (15) can be used to evaluate the optimum value of d/ℓ for various values of φ . This optimum ratio is expressed as:

Card 2/3

Calculation of the ..

\$/142/62/005/006/003/011 E192/E382

$$\left(\frac{d}{\ell}\right)_{\text{opt}} = \frac{\pi}{\varphi + 2\pi n}$$

Eq. (15) was verified experimentally for the principal harmonic and the first positive space harmonic. Eq. (15) is sufficiently accurate for practical calculations although the theory and measurements are not entirely in agreement. There are 5 figures.

ASSOCIATION:

Kafedra radioperedayushchikh ustroystv Kiyevskogo

ordena Lenina politekhnicheskogo instituta

(Department of Radio-transmitting Devices of Kiyev

Order of Lenin Polytechnical Institute)

SUBMITTED:

May 7, 1962

Card 3/3

Fig. 1:

TROKHIMENKO, Yaroslav Karpovich Trokhymenko, IA. I. J. Jand. tekhn. nauk; GERASIMOV, S.M. [Herasymov, S.M., prov., resemble RAK, r.f., inzh., red. izd-va; STARODUB; T.O., tekhn. red. [Transistors in electronic circuits] Tranzystory v elektronnykh skhemakh. Kyiv, Derzhtekhvydav URSR, 1963. 168 p. (MIRA 17:3)

SIGORSKIY, Vitaliy Petrovich, doktor tekhn. nauk; TROKHIMENKO, Ya.K., kand. tekhn.nauk, retsenzent; POLYANSKATA, L.O., inzh., red. izd-va; MATUSZVICH, S.M., tekhn. red.

[Analysis of electronic circuits] Analiz elektronnykh skhem.

[Analysis of slectronic circuits] Analiz elektronnykh skhem.

[Ind.2., ispr. 1 dop. Kiev, Gostekhizdat USSR, 1963. 198 p. (MIRA 16:5)

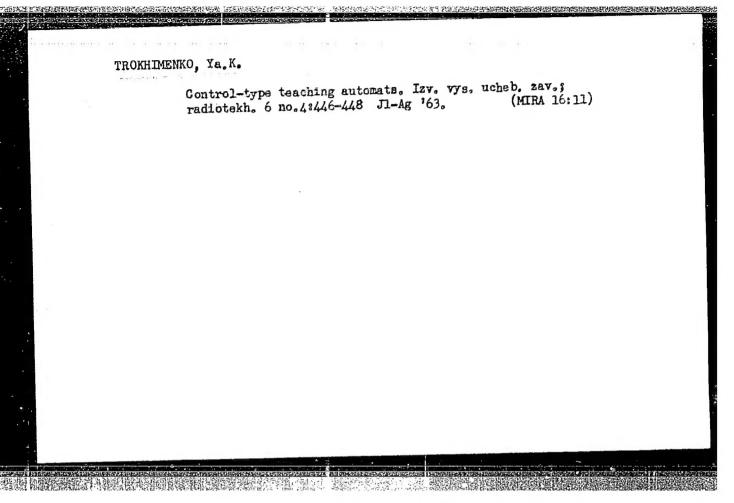
(Electronic circuits)

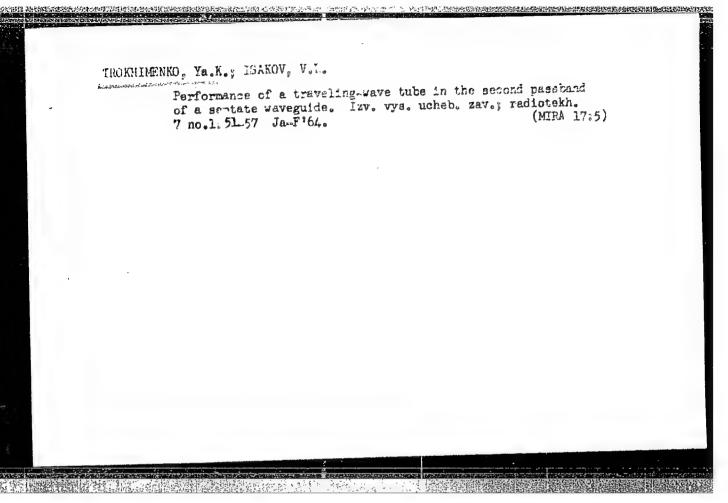
AND SECOND PROPERTY OF THE PRO

NAGORNYY, Leonid Yakovlevich, kand. tekhn. nauk; TROKHIMENKO, Ya.K., kand. tekhn. nauk, retsenzent; POLYANSKAYA, L.O., inzh., red.izd-va; SHAFETA, S.M., tekhn. red.

[Analysis and design of amplifier networks] Analiz i raschet usilitel'nykh skhem. Kiev, Gostekhizdat USSR, 1963. 243 p. (MIRA 16:6)

(Amplifiers (Electronics)) (Electronic circuits)





SERDYUE, Yu.v.; TROKHIMENKO, Ya.K.

Silicon p-n-p-n-type : "trolled rectifiers. Izv. vys. ucheb. zav.; rediotekh. 8 no.2:151-164 Nr-Ap '65.

(MIRA 18:7)

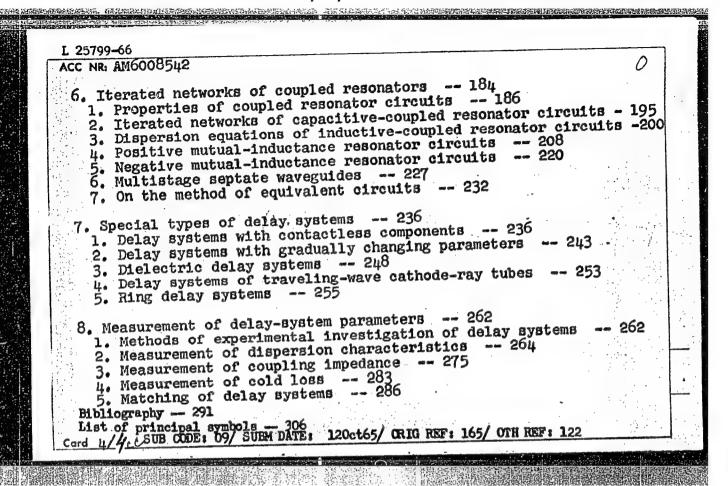
TARANENKO, Zoya Il'inichna, kand. tekhn. nauk; TROKHIMENKO,
Yaroslav Karpovich, kand. tekhn. nauk; AKALOVSKIY, I.V.,
kand. tekhn. nauk, retsenzent

[Delay systems] Zamedliaiushchie sistemy. Kiev, Tekhnika, 1965. 306 p. (MIRA 19:1)

L 25799-66 EWA(h)/ACC NR. AM6008542	Monograph	UR/28
Trokhimenko, YA	l'inichna (Candidate of Technical Scien roslav Karpovich (Candidate of Technica	
15,_	amedlyayushchiye sistemy) Kiev, Izd-v llus., biblio. 6000 copies printed.	o "Tekhnika",
	ay circuit, traveling wave, cavity reson	ator
PURPOSE AND COVER personnel of in also be used by engineering and education. It cathode-ray tubeam with the traveling-wave electrodynamic parameter delathose of some	MAGE: This book is intended for the techniques and enterprises and design offices a spirants and students in advanced could radio electronic divisions of schools describes the properties of delay systemes, using the extensive interaction of traveling-wave field. General problems propagation in delay systems are described and of cavity resonator circums special types of delay systems, are discovered and experimental investigation to their basic parameters are present.	chnical depth and may depth and may depth and may depth and for the electron depth and for the depth and depth a
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ACC NRI AR7000943

SOURCE CODE: UR/0275/66/000/011/A002/A002

AUTHOR: Trokhimenko, Ya. K.

TITLE: Coupling resistance of delay systems with lumped parameters

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A12

REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. radiotekhn., no. 2, 1965, 86-90

TOPIC TAGS: delay mechanism, traveling wave interaction, space harmonic, lumped parameter delay system, lumped parameter

ABSTRACT: In shi cathode ray devices the electron beam is transmitted through capacitive intervals (transit gaps) in which interaction between electrons and the traveling wave field occurs. Formulas for calculating coupling resistance of the n-space harmonic are derived. Graphs used in determining coupling resistance for the fundamental and the first positive space harmonic, and for several ratios between the transit gap length and the delay system period are presented. A bibliography of 2 titles is included. [Translation of abstract]

SUB CODE: 09/

UDC: 621.385.6

Trukkiners, A.1.; kukkinvich, ..V.

H.. D excharge in ethane on aluminum cride. Thur. (iz. khim. (Mich 18:9))

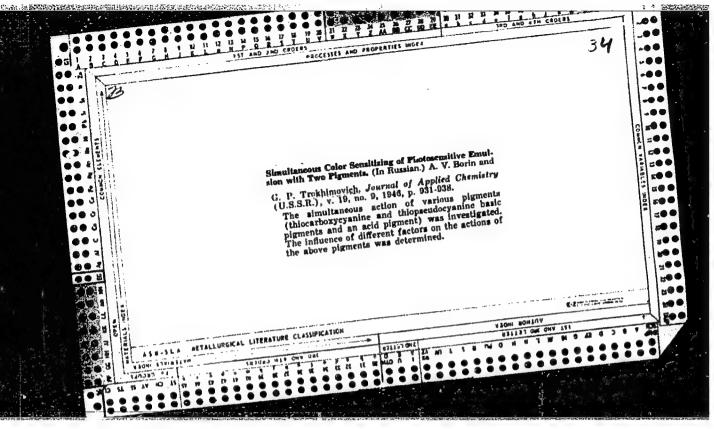
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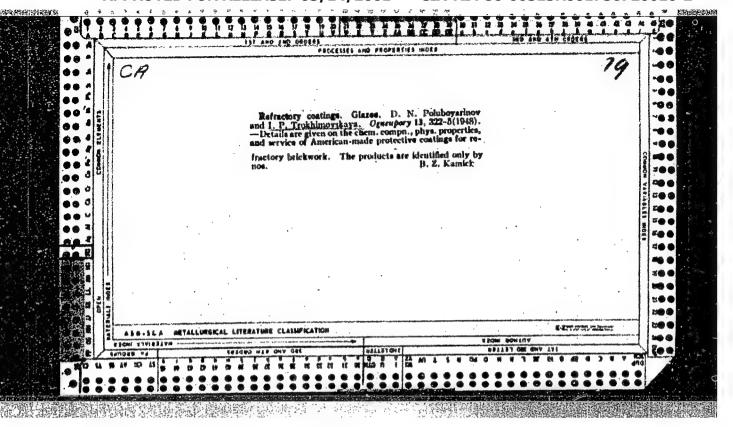
1. Institut obshchey i neorganichuskov khimii AN UkrSSE.

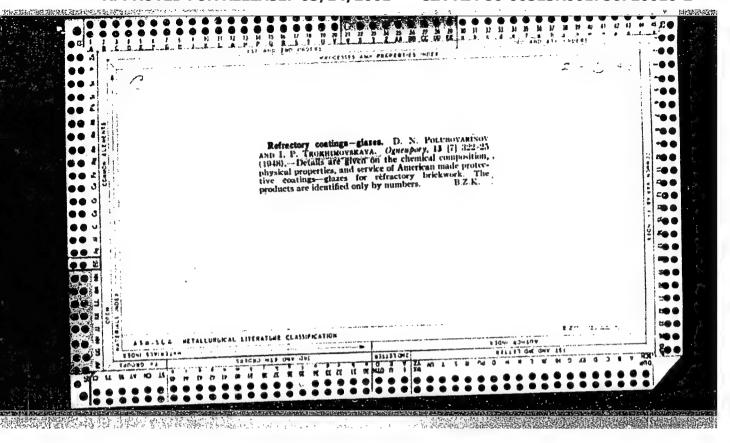
TROKHIMETS, A.I.; MARKEVICH, S.V.

Determination of the order of H - D exchange reaction between ethylene and deuterium on Moxide of aluminum. Zhur. fiz. khim. 38 no.5:1293-1300 My '64. (MIRA 18:12)

1. Institut fiziko-organicheskoy khimii AN BSSR. Submitted May 18, 1963.







BUDNIKOV, P.P., red.; BUTT, Yu.M., red.; MATVEYRV, M.A., red.; TROXHIMOVSKAYA,
I.P., red.; GURVICH, E.A., red.; GILENSON, P.G., tekhn.red.

[Collection of papers on the chemistry and technology of silicates]
Shornik turdov po khimii i tekhnologii silikatov. Moskva, Gos.
izd-vo lit-ry po stroit. materialam, 1957. 424 p. (MIRA 11:3)

(Silicates)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720010-2"

TROKHIPOVSKAYA, I. P.

UBSER/Engineering Jul 48

Refractories

"Refractory Coatings and Glazes," D. N. Poluboyarinov,
Dr Tech Sci, Prof, I. P. Troknimovskaya, Engr, 4 pp

"Ogneupory" Vol XIII, No 7

Describes refractory coatings and glazes used in the
US. (Data apparently taken from an article by V. I.
Pavlyuchenko in "Amerikanskaya Promyshlennost:" 1945,
No 2).

CAN BE THE REPORT OF THE PROPERTY OF THE PROPE

BARBARINA, T.M.; BUBYR', N.F.; BUTT, L.M.; VEL'SOVSKIY, V.N.;

GORLOV, Yu.P.; GRIBANOVSKIY, V.G.; DROZDOV, I.Ya.;

YERE:II, I.A.: ZEZIE, V.G.; KEVESH, P.D.; KOCHAROV, E.P.;

KOSYREVA, Z.S.; LEVIN, S.N.; MAKHNOVICH, A.T.; MERZLYAK,

A.N.; RODOV, E.S.; ROZHNOV, A.I.; SEREBRYANSKAYA, B.I.;

SUKHAREV, M.F.; USTENKO, A.A.; KHOMENKO, Z.S.; SHMIDT,

L.M.; ETIN, A.O.; YAKHONTOVA, N.Ye.; KITAYTSEV, Vladimir

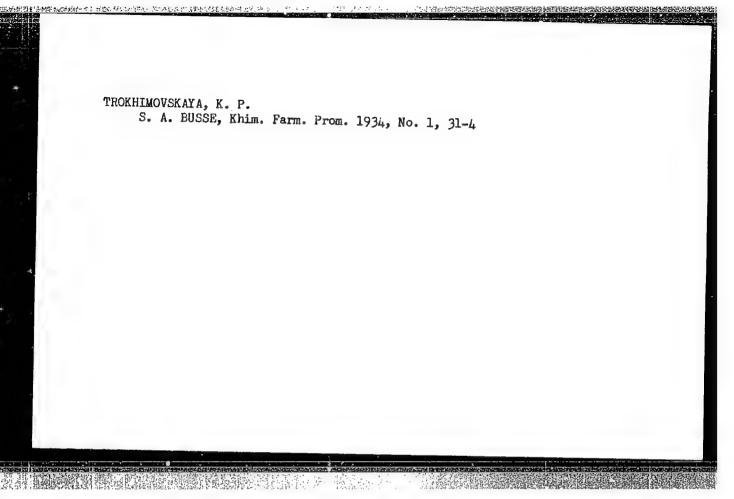
Andreyevich, prof., doktor tekhn. nauk, red.; SKRAMTAYEV,

B.G., glav. red.; TROKHIMOVSKAYA, I.P., zam. glav. red.;

KRAVCHENKO, I.V., red.; KITAYGORODSKIY, I.I., red.;

KRZHEMINSKIY, S.A., red.; ROKHVARGER, Ye.L., red.; BALAT'YEV,P.K.

[Manual on the manufacture of heat insulating and acoustical materials] Spravochnik po proizvodstvu teploizo
liatsionnykh i akusticheskikh materialov. Moskva, Stroiizdat, 1964. 524 p. (MIRA 18:1)

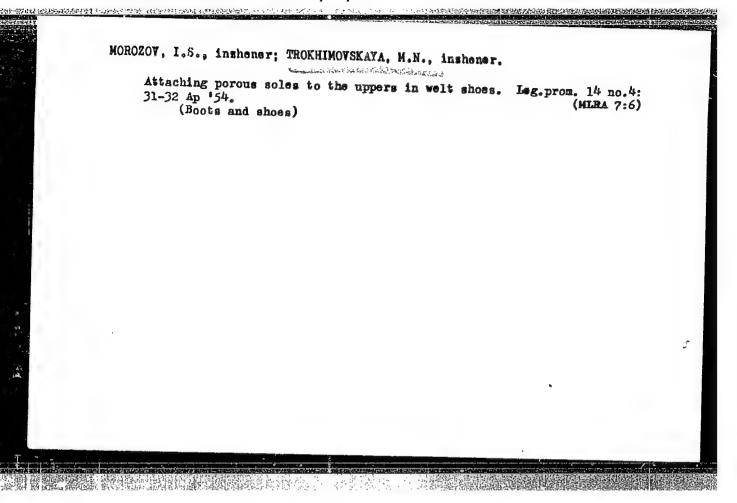


KOTEL'NIKOV, V.N.; TROKHIMOVSKAYA, H.N.; SERGETEVA, G.V.

Refractiveness of producing non-drawn-over footwear. Leg. prom. 17 no.5:15-17 My '57. (MLRA 10:6)

(Shoe industry)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720010-2"



ZYUZIN, Arkadiy Ivanovich; TROKHINOVSKIY, Cay Vladimirovich;
BATSANOV, A.S., kand. sel'khoz. nauk, red.; LZONOVA,
T.S., red.; RAKITIN, I.T., tekhn. red.

[Second bread] Vtoroi khleb. Moskva, Izd-vo "Znanie,"
1963. 31 p. (Novoe v zhizni, nauke, tekhniko. V Seriia:
Sel'skoe khoziaistvo, no.21) (MIRA 17:1)

(Potatoes)

- 1. SINYAGIN, I. I. : TROKHIMOVSKIY, V. A.
- 2. USSR (600)
- 4. Beets and Beet Sugar
- 7. Sowing sugar beets for feed in the non-chernozem zone. Doct. sel'khoz no.2 1452

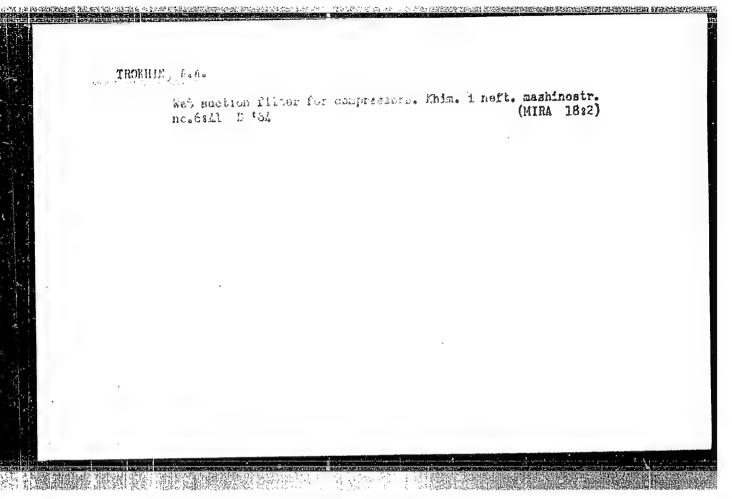
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. TROKHIMOVSKIY, V. A.
- 2. USSR (600)
- 4. Agriculture Congresses
- 7, Zonal conference of scientific research institutions of the central chernozem belt. Dost. sel'Rhoz. no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

- 1. SINYAGIN, I. I.: TROKHIMOVSKIY, V. A.
- 2. USSR (600)
- 4. Feeding and Feeding Stuffs
- 7. Sowing sugar beets for feed in the non-chernosem zone. Dost. sel'khoz. No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.



AUTHORS:

Plutalova, L. A., Candidate of

SOV/67-11-5-8/18

Technical Sciences, Trokhin, A. A., Engineer

TITLE:

Piston Compressors Operating Without Lubrication of the Cylinders (Porshnevyye kompressory, rabotayushchiye bez

smazki tsilindrov)

PERIODICAL:

Kislorod, 1958, Vol 11, Nr 5, pp 48 - 53 (USSR)

ABSTRACT:

The compressors described here are not Soviet compressors. The reason for the development of compressors which operate without lubrication of the cylinders is given fouling of the gas by oil, obstruction of the pipes in the liquefier. Because of the arising packing difficulties 2 types have been developed. Compressors with labyrinthine and such with packing consisting of graphite material. There are:1) Two compressors of the firm Burckhardt (Switzerland):600 m²/hour, 6 atmospheres absolute pressure: compressor of the firm

atmospheres absolute pressure; compressor of the firm Sulzer (Switzerland) 1430 m³/hour, 6 atmospheres absolute

Card 1/2

pressure. Principle: freely rotating piston cylinders

Piston Compressors Operating Without Lubrication of the SOV/67-11-5-6/13 Cylinders

(Figs). 2) Compressors with packings consisting of graphite material. For various graphite materials a table with their physico-mechanical properties is given). There are presented: A compressor of the firm Skoda (Czechoslovakia) (Fig) 300 m³/hour, 4 atmospheres absolute pressure; one of the firm Burckhardt 17 m³/hour, 31 atmospheres absolute pressure (Fig); Clark (US) 30 m³/hour, and an oxygen compressor with 32 m³/hour and 165 atmospheres absolute pressure; Germany with an oxygen compressor and one for hydrogen chloride. Furthermore it is mentioned that the USSR has also developed such compressors with an absolute pressure of up to 300 atmospheres. There are 6 figures, 1 table, and 7 references, 2 of which are Soviet.

Card 2/2

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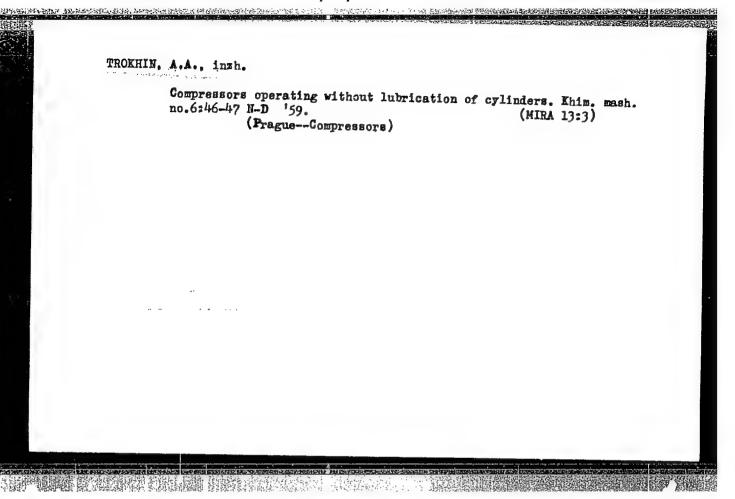
KHLUMSKIY, Vladimir [Chlumsky, Vladimir], prof.; TROKHIN, A.A., inzh. [translator]; RUMYANTSEV, V.A., dots., red.; RYZHOVA, L.P., inzh., red.izd-va; MODEL', B.I., tekhn. red.

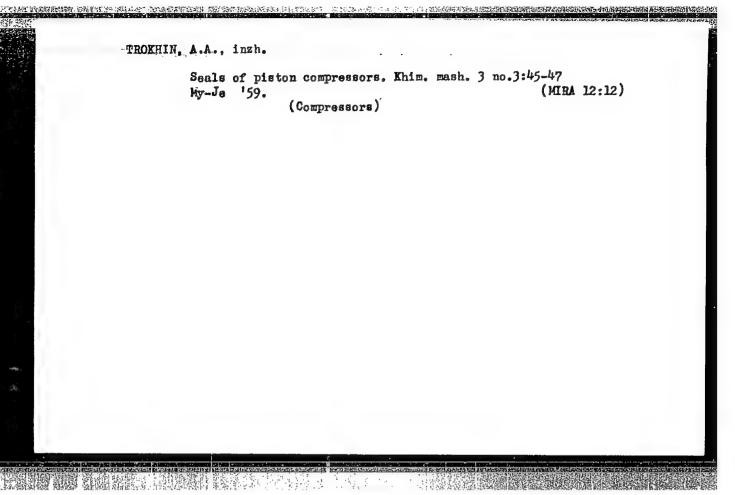
[Piston compressors]Porshnevye kompressory. Pod red. V.A. Rumiantseva. Moskva, Mashgiz, 1962. Translated from the Czech. (MIRA 15:11)

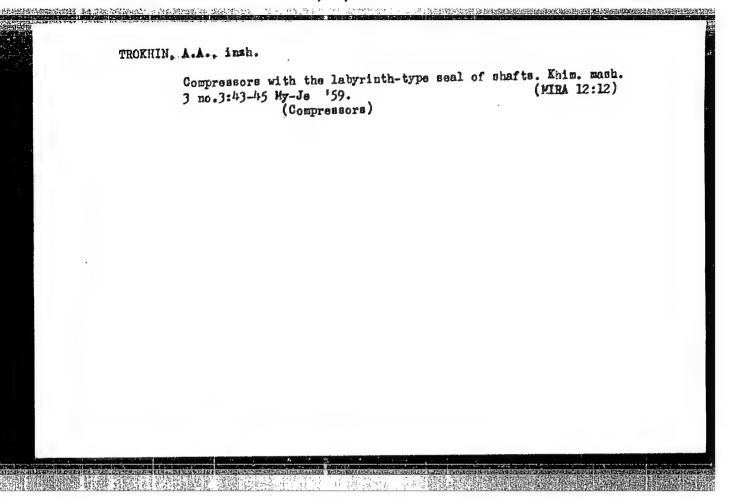
1. Vysshaya tekhnicheskaya shkola v Prage (for Khlumskiy). (Compressors)

TROXHIN, A.A., inzh.

Regulating the performance of reaction turboexpanders. Kislored 12 no.5:32 159. . (MIRA 13:2) (Refrigeration and refrigerating machinery)







14(1) AUTHOR:

Trokhin, A. A., Engineer

SOV/67-59-5-9/30

TITLE:

Regulating the Performance of Reactive Turboengines Driven

by Compressed Gas

PERIODICAL: Kislorod, 1959, Nr 5, p 32 (USSR)

ABSTRACT:

Turboengines driven by compressed was of the reactive type (radial, and with long blades) have a computed adiabatic efficiency of 81%. The performance of these engines cannot be regulated by the aid of nogzles as is the case with active ones (large drop in efficiency) but is usually regulated by throttling prior to entrance into the jet engine or by counterpressure (leads to a high loss in cold). Investigations were carried out by the VNIIKIMASh regarding the possibility of regulating the performance of reactive turboengines driven by compressed gas which resulted in the fact that the efficiency may be changed by switching off the nozzles of the distributor thus enabling a fine adjustment of the efficiency by partially switching off the nozzles without the disadvantages of the two methods mentioned. A control is only possible in a narrow range below the computed efficiency

Card 1/2

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TROKHIN, A.A., inzh.

Hydraulic clutch for compressors. Khim. mash. no. 3:43 My-Je 160.
(MIRA 14:5)

(Compressors) (Clutches (Machinery))

14(1) AUTHOR:

Trokhin, A. A., Engineer

SOV/67-59-2-14/18

TITLE:

Determination of the Number of Plates of a Rectifying Column

(Opredeleniye chisla tarelok rektifikationnykh kolonn)

PERIODICAL:

Kislorod, 1959, Nr 2, pp 51-52 (USSR)

ABSTRACT:

The number of theoretical plates can be determined in a graphical way or by analytical calculation from plate to plate (Ref 1). The graphical method, which is illustrated in figure 1, is usually rather accurate; but as soon as the equilibrium curves and operational straight lines (rabochaya pryamaya) are too close to one another, it becomes rather inaccurate on too small a scale (magnification of this curve branch on figure 2). The author then gives a short description of the simplified calculation of theoretical plates in the boundary regions of the equilibrium curve as demonstrated by L. Vins in his article "K určováni počtu pater rektifikačnich kolon" (Stroirenstvi, 1958, sv. 8, Nr 10, pp 745-747). In this article the equilibrium curve in the upper part of the diagram was replaced by a straight line, i.e. by the tangent of the equilibrium curve in the point x = y = 1; further, the author of the afore-mentioned article set up the expressions for

Card 1/2

Determination of the Number of Plates of a Rectifying SOV/67-59-2-14/18 Column

the number of theoretical plates in the general case, and in the case that one component is only in the vapor phase. Similar expressions were obtained also for the lower part of the equilibrium curve. The calculation may be employed in the case of high concentration of one or both components of the mixture to be separated. There are 5 figures and 2 references.

Card 2/2

CIA-RDP86-00513R001756720010-2 "APPROVED FOR RELEASE: 03/14/2001

sov/67-11-5-13/18 Kaganer, M. G., Petrovskiy, Yu. V., Afanas'yev, S. G., Candidates of Technical Sciences, Trokhin, A. A., Engineer ATTHORS:

From Foreign Journals (Po stranitsam zhurnalov) TITLE:

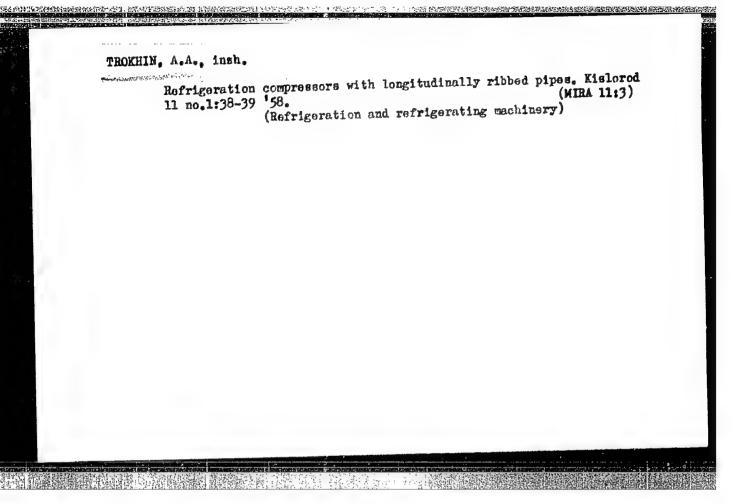
Kislorod, 1958, Vol 11, Nr 5, pp 59-64 (USSR) PERIODICAL:

Under this title brief abstracts of articles published in foreign journals are presented. There are 14 articles ABSTRACT:

dealing with the oxygen industry and its border fields, 9 American, 1 English, 1 German, 2 French and 1 Polish article. There are 3 figures.

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Card 1/1



PLUTALOVA, L.A., kand.tekhn.nauk; TROKHIN, A.A., inzh.

Piston compressors operating without lubrication of cylinders. Kislorod (MIRA 11:12)

11 no.5:48-53 ' 58. (MIRA 11:12)

(Air compressors)

THE CONTRACTOR OF THE PROPERTY OF THE PROPERTY

Using polystyrenes at low temperatures (from "Stvojivenstvi," no.4, 1958).

Kislorod 11 no.5:62-64 ' 58. (MIRA 11:12)

(Gzechoslovakia--Styrene) (Gzechoslovakia--Liquid air)

TROKHIN, A.A.

67-1-7/20

AUTHOR:

Trokhin, A. A., Engineer

TITLE:

Centrifugal Compressors From the Factory CLKD-Stalingrad (Tsentrobezhnyye kompressory zavoda CLKD-Stalingrad)

, Nr 1, pp. 37 - 38 (USSR)

PERIODICAL:

ABSTRACT:

In the Czechoslovakian machine building factory CLKD-Stalingrad a series of centrifugal compressors consisting of 12 objects has been worked out, which have been classified by degrees according to their power output and which correspond to the general power of 6300 to 80000 m3/h. A table of the respective model designation and of the power output is given here. The smallest of these machines (6300 m3/h) was exhibited in the fair at Brno in autumn, 1957. As advantages of this compressor its simple mounting , the possibility of fixing it to a platform truck in built up condition and its practical use as spare unit for the case of an operational breakdown are mentioned . There are 1 figure,

Card 1/2

1 table, and 1 reference, 1 of which is Slavic.

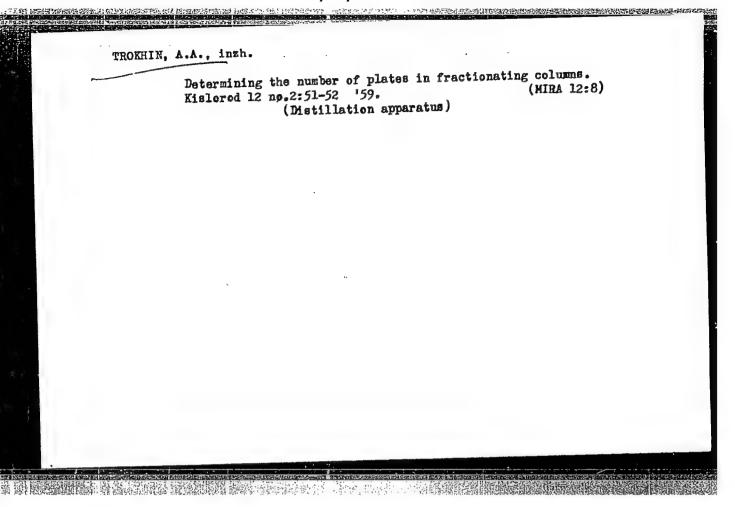
67-1-7/20

Centrifugal Compressors From the Factory CLKD- Stalingrad

AVAILABLE: Library of Congress

1. Centrifugal compressors-Characteristics

Card 2/2



TROKHIN, A.A.

67-1-8/20

AUTHOR:

Trokhin, A. A., Engineer

TITLE:

Compression Radiators Equipped With Finned Tubes

(Kholodil'niki s prodol'no orebrennymi trubkami dlya kompres-

sorov)

PERIODICAL:

Kislorod, 1958, . , Mr 1, pp. 38 - 39 (USSR)

ABSTRACT:

As an introduction the author refers to foreign technical publications where allegedly the cooling tube with fins running parallel with the current in the tube are preferably discussed (from the Czech "Strojirenstvi", 1956, Nr 10, pp. 657-662). As an example the author here quotes a radiator of Czech production (2DSK350Z), the tube of which is equipped with fins and of which a sketch is also given here. It is said to have the advantage that the weight of the radiator can be remarkably reduced by it. Thus for example the compressor 2TLK710 of the factory ChKD-Sokolov (in Prague) had the old type of radiator weighing 900 kg whereas the new radiator for it with gilled tubes is said to have a

Card 1/2

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67-1-8/20

Compression Radiators Equipped Wit: Finned Tubes

weight of only 300 kg. The U-shaped gills are said to have turned out equally practical. There are 4 figures, and 1 reference, 0 of which is Slavic.

AVAILABLE:

Library of Congress

1. Compression radiators-Cooling systems

Card 2/2

TROKHIN, A.A.

Trokhin, A.A., Engineer, AUTHORS:

67-6-13/23

Petrovskiy, Yu. V., Candidate of Technical Sciences

TITLE:

A Survey of Periodicals (Po stranitsam zhurmalov)

PERIODICAL:

Nr 6, pp. 38-38 (USSR) Kislorod, 1957,

Received: April 7, 1958

ABSTRACT:

Four abstracts from foreign newspapers are mentioned dealing with the following subjects: An oxygen turbocompressor (VDI Periodical, 1955, VII, 97, No 19/20, p. 614); New heat insulating material (Penouretan) (Barringer, Refrig. Eng. 1957, 4, pp. 53-6; 108; 111, 112, USA); On the application of oxygen in blast furnaces (James, Compressed Air Mag. 1957, 6, pp. 170-4), and on pumps for liquid oxygen (Missiles & Rockets, 1956, 3, pp. 35-54). There are 1 figure

and 4 non-Slavic references.

AVAILABLE:

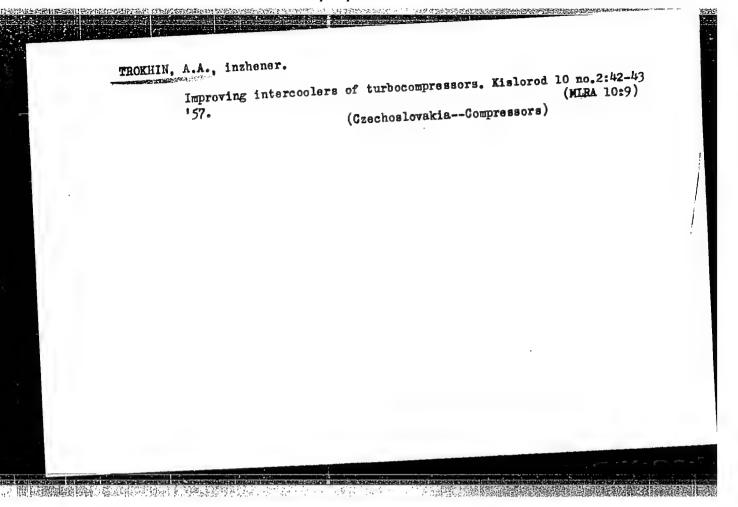
Library of Congress

Card 1/1

A CHARLE A LICENSE DE LA COMPANION DE LA COMPA

FISHELEVICH, M.; SOKOLOVA, L.M.; TROKHIN, V.K.; IVASHCHENKO, S.A.; VASIL'KOV, G.V.; BORISOVICH, Yu.F.; OVSYANOV, N.I.; AMINOV, S.A.; SUVOROV, P.S.; SHUBIN, V.A.; CHIZHOV, A.

Information and brief news. Veterinariia 41 no.3:118-126 Mr *64. (MIRA 18:1)



ALIKAYEV, V.A.; DUL'NEV, V.I.; VASIL'KOV, G.V.; TROKHIN, V.K.;

IVASHCHENKO, S.A.; PLATONOV, V.A., veterinarno-sanitarnyy
ekspert; ROMANYUKHA, A.I.; BHYUSHKOV, P.; PERGAT, F.F.;
SPIRIN, F.; ARKADSKIY, V.P.; MEDVEDEV, I.

Brief news. Veterinariia 41 no.10:118-126 0 *64.

(MIRA 18:11)

1. Nachal'nik veterinarno-sanitarnogo uchastka stantsii
Melitopol' Pridneprovskoy zheleznoy dorogi (for Romanyukha).

SOLOMKIN. P.S., prof.; TROKHIN, V.K.; IVASHCHENKO, S.A.; VASIL'KOV, C.V.;
KAMENSKIY, I.V.; MELEKHIN, P.I.

Reviews. Veterinariia 41 no.7;112-114 Jl '64.

(MIRA 18:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720010-2"

CHANGE IN THE STREET STREET

PARIKOZHKA, I.A.; PUGACH, A.B.. Prinimali uchastiyo: PASHCHENKO, Z.S.; FUEMAH, I.I.; TRUSKALOV, N.P.; SHEVCHENKO, A.Ye.; SAKHAROVA, T.M.; TROKHINA, Zh.G.; LEVINOV, K.G.; YAKOVICH, A.Ye.. SALITAN, L.S., red.; SHEFER, G.I., tekhn.red.

[Manual on electric measurements of long-distance communication lines] Rukovodstvo po elektricheskim izmeremiiam mezhdugorodnykh linii sviazi. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 194 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye mezhdugorodnoy telefonno-telegrafnoy svyazi. 2. Kiyevskoye otdeleniye TSentral'-nogo nauchno-issledovatel'skogo instituta svyazi (for Parikozhka, Pugach, Pashchenko, Furman, Truskalov, Shevchenko, Sakharova, Trokhina). 3. TSentral'nyy nauchno-issledovatel'skiy institut svyazi (for Levinov, Shvartsman). 4. UMMKS (for Yakovich).

(Telecommunication) (Electric measurements)

GAVRILOV, F.P., otv. red.; TROKHMAN, A.V., red.; ZYUZINA, A.A., red.; KOZHEVNIKOV, P.M., red.

[Economy of Chelyabinsk Province; statistical collection] Narodnoe khoziaistvo Cheliabinskoi oblasti; statisticheskii sbornik. Cheliabinsk, Gosstatizdat TsSU SSSR Cheliabinskoe otdnie, 1961. 177 p. (MIRA 15:3)

1. Chelyabinsk. (Province) Oblasnoye statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Chelyabinskoy oblasti (for Gavrilov). (Chelyabinsk Province—Statistics)

RADKEVICH, V.R.; GUSEV, A.D.; TROKHMAN, S.A.

Basic trend in the automation of processes in veneering furniture panel elements. Bum.i der.prom. no.1:5-10 Ja-Mr 162. (MIRA 15:5)

1. Mebel: naya fabrika imeni Bozhenko. (Veneers and veneering) (Assembly-line methods)

TROKHOV, V.

Technology

等的复数形式

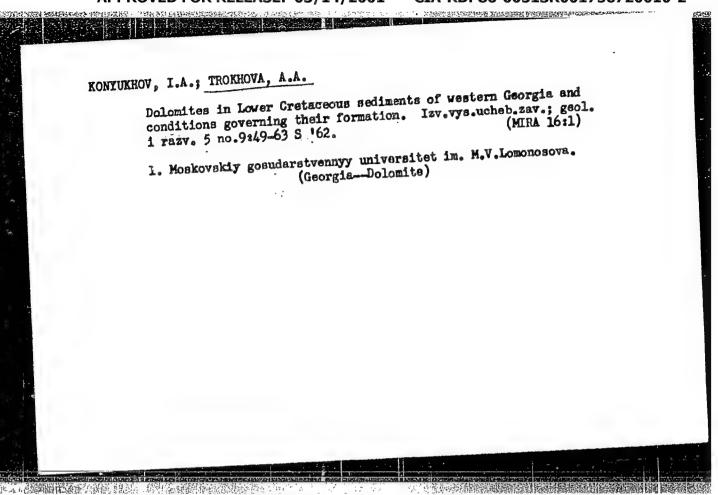
For the hobor of the factory trade mark. (Moskva) Moskovskii rabochii, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED

TROKHOV, V.G.

Not enough fabrics, trimnings, and furnishings for children's clothing. Shvein.prom. no.6:39 N-D '59. (MIRA 13:4)

1. Nachal'nik Upravleniya shveynoy promyshelennosti Mosgorispolkoma. (Children's clothing)



GUSEVA, A.N.; TROKHOVA, A.A.

Hydrocarbons of disseminated bitumens in Lower Cretaceous carbonate rocks of western Georgia. Izv.vys.ucheb.zav.; neft'i gaz 5 no.4:15-17 '62. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Georgia-Hydrocarbons)

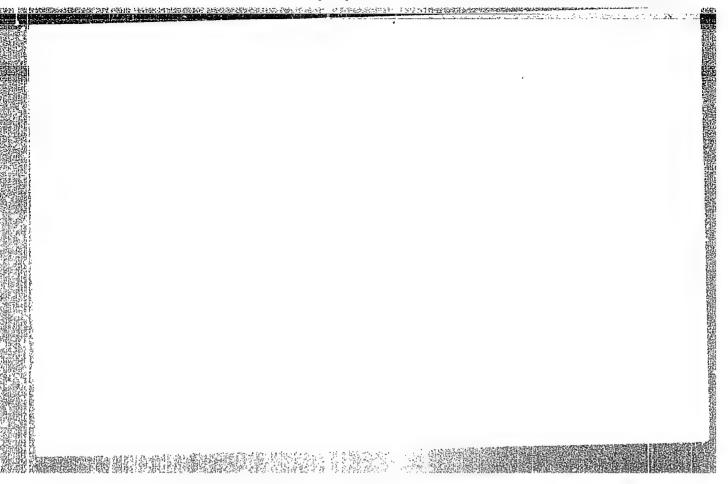
DRITS, M.Ye.; MAL'TSEV, M.V.; SVIDERSKAYA, Z.A.; PADEZHHOVA, Ye.M.;

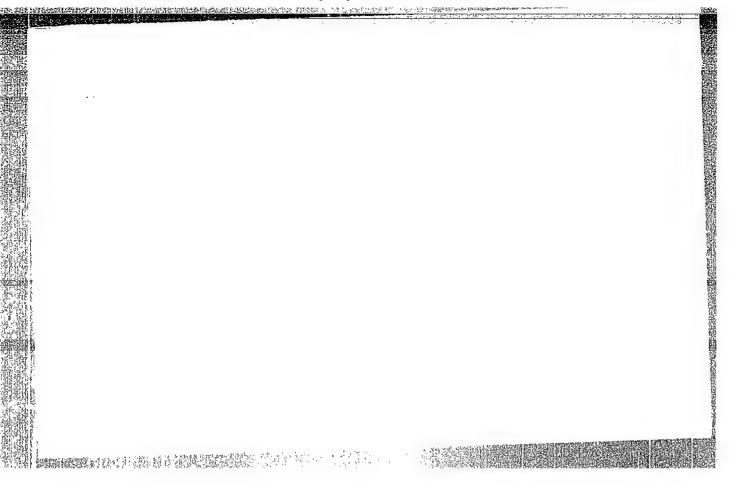
TROKHOVA, Y.F.

Effect of additional alloying on the properties of alloys in
the system Mg - Th - Mn. Issl. splav. tsvet. met. no.3:86-92
(MIRA 15:8)

'62.

(Magnesium-thorium-manganese alloys)





77391 sov/79-30-1-52/78 5.3600 Petrov, D. A., Danilova-Dobryakova, G. T., Trokhova, AUTHORS: V. F. Concerning Thermal Decomposition of Organosilicon TITLE: Compounds Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp PERIODICAL: 235-239 (USSR) Thermal decomposition of organosilicon compounds was studied in order to obtain pure silicon. ABSTRACT: According to the data obtained by Ch. E. Waring (Trans. Farad. Soc., 36, 1142, 1940), the thermal decomposition of tetraethylsilane can be expressed: $Si(C_2II_5)_4 \longrightarrow Si + 4C_2II_5$. $\mathrm{Si}(C_2H_5)_4\longrightarrow \cdot \mathrm{Si}(C_2H_5)_3 + \cdot C_2H_5 \ (\text{slow}\),$ \cdot Si(C₂H₅)₃ \rightarrow Si + 3C₂H₅ · (slow), $\cdot \, C_2 H_5 \longrightarrow C_2 \Pi_4 + H,$ 2H - H2 (fast), C2H4 -> CH4+C (slow). Card 1/4

Concerning Thermal Decomposition of Organosilicon Compounds

77391 sov/79-30-1-52/78

Decomposition of the 11 compounds (shown in Table 1) was conducted on the apparatus shown in Fig. 1.

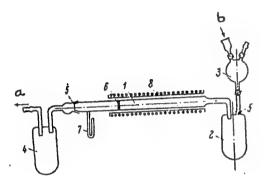


Fig. 1. Scheme of apparatus for thermal decomposition of silicon organic compounds.

(a) To pump; (b) compound.

(1) Quartz tube (reactor, 26 mm in diameter); (2) quartz evaproator; (3) vacuum funnel; (4) trap, cooled with liquid nitrogen: (5) ground joints; (6) quartz filter Nr 1; (7) mercury manometer; (8) tube furnace.

Card 2/4

Concerning Thermal Decomposition of Organosilicon Compounds

77391 sov/79-30-1-52/78

The decomposition was conducted at 300-1,200° and 50-80 mm. The results are shown in Table 2.

Table 2. Carbon content in initial compounds and in products of decomposition.

Investigated compounds	Decompo- SITION begins at the . temperature	in the	Carbon Content 70 In the decomposition products obtained at temperatures			
		149	600°	900°	1000^	1200°
$\begin{array}{l} (CH_3)_4Si \\ (C_2H_5)_4Si \\ (C_2H_5)_4Si \\ CH_3(C_2H_5)_2SiH \\ CH_3(C_4H_9)_2SiH \\ (C_2H_5)_3C_6H_5Si \\ CH_2=CH-CH_2(CH_3)(C_6H_5)SiH \\ (CH_3)_2Si(C_2H_5)C_6H_5 \\ CH_3SiHCl_2 \\ C_2H_5SiHGl_2 \\ C_2H_5SiHGl_2 \\ (CH_3)_2Si(OC_2H_5)_2 \\ (CH_3)_2Si(OC_2H_5)_2 \\ C_6H_5(CH_3)Si(OC_2H_5)_2 \end{array}$	660° • 580 • 600 1000 800 800 800 800 800 800 800 800	54 66.7 58.8 68.3 75 74 73 10.4 18.6 48.6 62.7	25.3 20.5 23.8 does nor decompute The same 28.3 does nor decompose	27.3 22.6 25.5 dees not decompuse 25.3 23.5 27.3 22.5 23.5 31 28.4	28.3 30.0 26.7 10.3 — 23.6 28 25.3 27.5 36.6 42	31.4 19 — — — 39.7 46

Card 3/4

Concerning Thermal Decomposition of Organosilicon Compounds

77391 SOV/79-30-1-52/78

The following conclusions are made: The solid products of decomposition of organosilicons always contain silicon and carbon (10-40%); the amount of carbon in the solid products of decomposition increases with rising temperature; there is no dependence between carbon content in the initial compounds and in the solid products of decomposition; admixtures, which are present in the initial compounds, pass fully into the solid products of decomposition, except Mn and Na. There are 11 references, 6 U.S., 1 U.K., 2 German, 2 Soviet. The 5 most recent U.S. references are: G. Aston, R. M. Kennedy, J. Am. Chem. Soc., 69, 2692 (1947); F. Whitmore, L. H. Sommer, and others, J. Am. Soc., 68, 475 (1946); L. J. Tyler and others, J. Am. Chem. Soc., 70, 2876 (1948); R. O. Sauer and others, J. Am. Chem. Soc., 68, 962 (1946); H. Emeleus, S. Robinson, J. Am. Chem. Soc., 69, 1952 (1947).

SUBMITTED: Card 4/4 December 27, 1958

The Control of the Co

ZAKHAROV, M.V.; SVIDERSKAYA, Z.A.; DRITS, E.M.; TROKHOVA, V.F.

Effect of tin on the properties of deformable magnesium alloys
at room and higher temperatures. Trudy Inst. met. no.12:152160 163.

(Magnesium alloys—Metallography) (Deformations(Mechanics))

15 - 1 T

"APPROVED FOR RELEASE: 03/14/2001

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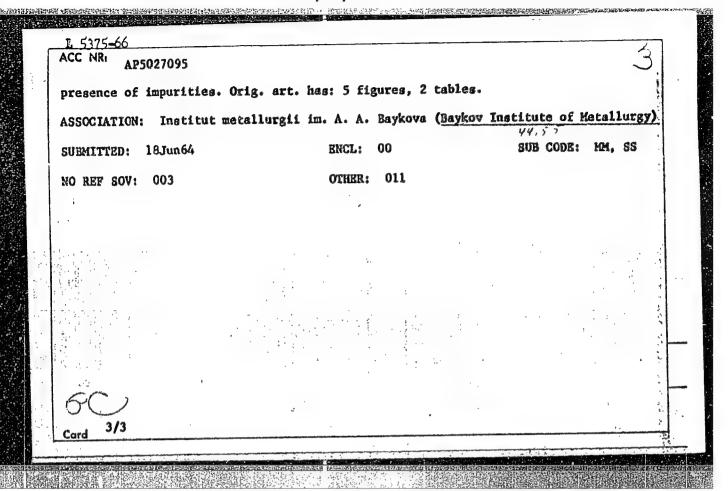
ACC NR UR /0149 /65 /000 /005 /0101 /0107 AP5027095 669.721 A.; Trokhova, V. E. Sviderekaya, Z. Properties of lithium-containing magnesium, alloys TITLE: IVUZ. Tsvetnaya metallurgiya, no. 5, 1965, 101-107 SOURCE: TOPIC TAGS: lithium containing alloy, magnesium base alloy, crystal lattice, hardness, tonsile strength, compressive strength, plasticity ABSTRACT: Alloying Mg with Li produces alloys of a density lower than that of the normally used Mg alloys (1.3-1.6 g/cm3). Moreover, when the Li content exceeds 11%, the close-packed hexagonal lattice of Mg changes to a body-centered cubic lattice, thus assuring an exceptional suitability for pressworking. The available literature indicates that the properties of these alloys are greatly affected by the purity of starting materials, and particularly by the Nav Content (an impurity of Li), as well as by the conditions of the preparation and processing of the alloys. This complicates a comparison of the findings of individual investigators, particularly since the conditions under which the alloys are obtained are not always reported. To fill this gap, the authors investigated the properties of binary and certain ternary Licontaining Mg alloys prepared under fixed conditions from Mg (99.1% pure) electrolytic Li (99.7% pure, containing 0.15-0.20% Na), A00 A1 (99.7% pure), and KDO Cd (99.97% Card 1/3 09010295

L 5375-66

ACC NR: AP5027095

pure). Depending on the amount of Li added, the Na content of the alloys varied from 0.01 to 0.04%. The specimens for mechanical tests were prepared from hot-pressed rods. On alloying Mg with Li, the hardness of the alloys increases until the two-phase region $\alpha + \beta$ is attained (5-7% Li). As the Li content is further increased, transition to the 6-solid solution region takes place and, in alloys with 12-14% Li, the hardness falls below the hardness of pure Mg. The presence of Li in the alloys hardens them to a comparatively small extent (at 5-7% Li the hardness is only 5-6 kg/mm2 higher than the hardness of Mg). The same may be said of the effect of Li on compressive and tensile strength of the alloys: the values of this strength are somewhat higher than for pure Mg when the Li content is 3-7% (when the alloys have a two-phase structure), but they decrease once transition to the β -phase region takes place. If the Li content is below 3%, the structure of the alloys is an \alpha-solid Mg-base solution. This pattern is to a large extent offset in ternary Mg alloys where the presence of Al or Cd as the third alloy element markedly enhances the hardness and the tensile and compressive strength, particularly when Al is used. The best combination is that of alloys containing 2-5% Li and 5-10% Al, as then tensile strength is 27-33 kg/mm2 and yield point = 17-22 kg/mm2. Allowance must be made, however, for the adverse effect of Al on the plasticity of the alloys, due to the appearance of brittle intermetallic phases in their structure. Evidently, the optimal content of Al must be determined on taking into account the concentration of Li and other alloy elements. as well as the

Card 2/3



DRITS, M.Ye., doktor tekhn. nauk, otv. red.; HOGHWAR, A.A., akademik, red.; BELOV, A.F., doktor tekhn. nauk, red.; DOBATKIN, V.I., doktor tekhn. nauk, red.; MAL'TSEV, M.V., doktor tekhn. nauk, red.; FRIDLYANDER, I.N., doktor tekhn. nauk, red.; SVIDERSKAYA, Z.A., kand. tekhn. nauk, red.; YELAGIN, V.I., kand. tekhn. nauk, red.; BARBANEL', R.I., kand. tekhn. nauk, red.; SHAROV, M.V., kand. tekhn. nauk, red.; KADANER, E.S., kand. tekhn.nauk, red.; TROKHOVA, V.F., red.; CHERNOV, A.N., red.

[Metallography of light alloys] Metallovedenie legkikh splavov. Moskva, Nauka, 1965. 226 p. (MIRA 18:10)

1. Moscow. Institut metallurgii.

DRITS, M.Ye.; SVIDERSKAYA, Z.A.; TROKHOVA, V.F.

Properties of magnesium alloys containing lithium. Izv. vys. ucheb. zav.; tsvet. met. 8 no.5:101-107 165. (MIRA 18:10)

1. Institut metallurgii imeni Baykova.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756720010-2

EWT(m)/EWP(w)/EWP(t)/ETI IJP(c) JD/JG/JH ACC NR: AP6033619

SOURCE CODE: UR/0136/66/000/010/0077/0081

AUTHOR: Drits, M. Ye.; Sviderskaya, Z. A.; Trokhova, V. F.

ORG: none

TITLE: Effect of chemical composition on properties of Mg-Li alloys

SOURCE: Tsvetnyye metally, no. 10, 1966, 77-81

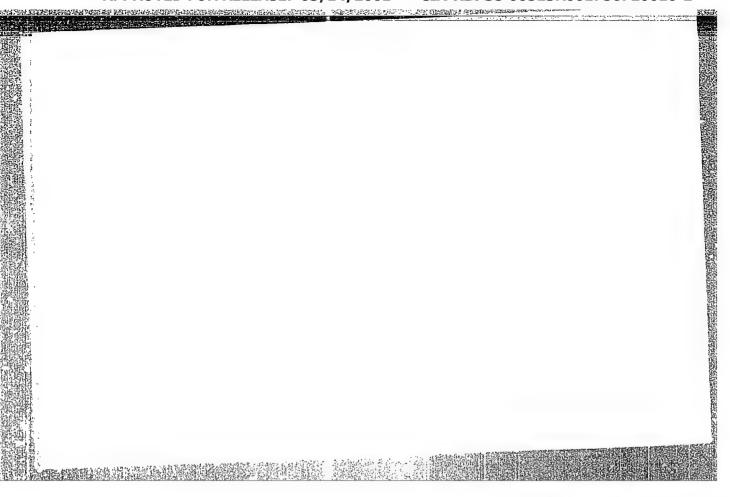
TOPIC TAGS: magnesium lithium alloy, alloy composition, alloy property, alloy

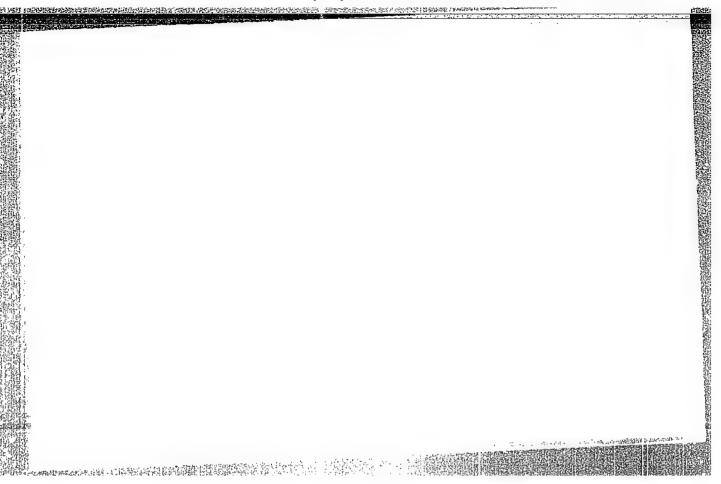
structure

ABSTRACT: The properties of binary magnesium-base alloys containing 0--12% lithium, melted from 99.91%-pure magnesium and 99.96%-pure lithium (to eliminate the effect of sodium), were determined in the hot-extruded or annealed (at 500C for 50 hr) conditions. It was found that lithium content increased the resistivity up to 12%: from 4.6 to 14.4 µ.ohm.cm for both hot-extruded and annealed specimens. With lithium content increased to 5%, microhardness increased from about 50 to 58 kg/mm 2 but dropped by 6—8 kg/mm 2 with further increase of lithium content. The density of alloys decreased with increasing lithium content from 1.74 g/cm3 for pure magnesium to 1.39 g/cm3 for alloy with 12% lithium. The tensile strength of hot-extruded alloy with 12% lithium (β-phase) dropped more than 50% and the elongation increased 8 times compared to those of pure magnesium. Annealing lowered the tensile strength of pure magnesium from 21 to 10 kg/mm2; annealed alloys containing up to 10% lithium

Card 1/2 UDC: 669.721'884:620.1

07365-67 ACC NR: AP6033619 3 have a tensile strength $2-7~{\rm kg/mm^2}$ higher than pure magnesium. The elongation of annealed alloys with 1-5% or over 10% lithium is lower than that of hot-extruded alloys. In two-phase alloys (5-10% Li), no difference is observed. The yield strength of hot-extruded or annealed alloys follows the same pattern as the tensile strength. Hot-extruded magnesium has a fine-grained structure; alloys containing over 10% lithium have a coarse-grained structure. Lithium has little or no effect on the recrystallization process. The β -phase appears in hot-extruded alloys at 3% lithium and is present in considerable amounts in alloys with 5% lithium. The structure of alloy with 6-9% lithium consists of α and α + β eutectic. Alloys containing over 10% lithium have a homogeneous structure of β -solid solution. The alloys containing more than 3% lithium have a tendency to soften under stresses at temperatures as low as 60-100C. The rupture strength of alloys with 9-12% lithium is 80% lower than that of pure magnesium. Only in alloy containing 2% magnesium is the rupture life higher than in pure magnesium. Orig. art. has: 2 figures. SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 002/ ATD PRESS: 5101 Card 2/2





S/0058/64/000/007/E093/E093

ACCESSION NR: AR4046014

SOURCE: Ref. zh. Fizika, Abs. 7E705

AUTHORS: Vasil'yev, A. A.; Gruzin, P. L.; Zharov, Yu. D.; Polikarpov, Yu. A.; Trokin, Yu. A.; Breger, A. Kh.; Gol'din, V. A.

TITLE: Effects of gamma and neutron irradiation on the internal friction of copper

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat, 1963, 250-257

TOPIC TAGS: internal friction, copper, polycrystal, single crystal, gamma irradiation, neutron irradiation, temperature dependence, annealing

TRANSLATION: The internal friction (IF) of polycrystalline and single-crystal samples of copper was measured under flexural vibra-

Card 1/2

ACCESSION NR: AR4046014

tions, using a Forster type installation, in the interval from -196 to +200C, before and after irradiation with gamma rays (Co⁶⁰) and neutrons (Po-Be source and a reactor). Prior deformation of the samples, on the order of 10⁻³, greatly increases the IF level. The subsequent irradiation of the samples with neutrons leads to a decrease in the IF to one-half, but the level of the IF remains above that in annealed copper. Annealing at 200C for three hours lowers the IF level to the initial value. In the study of the temperature dependence of the IF it has been established that irradiation lowers the IF background introduced by the prior deformation. Irradiation with gamma rays increases the IF. An analysis of the amplitude and temperature dependences of the IF shows that the interaction of the dislocations with the point defect is the principal process. L. Gordiyenko.

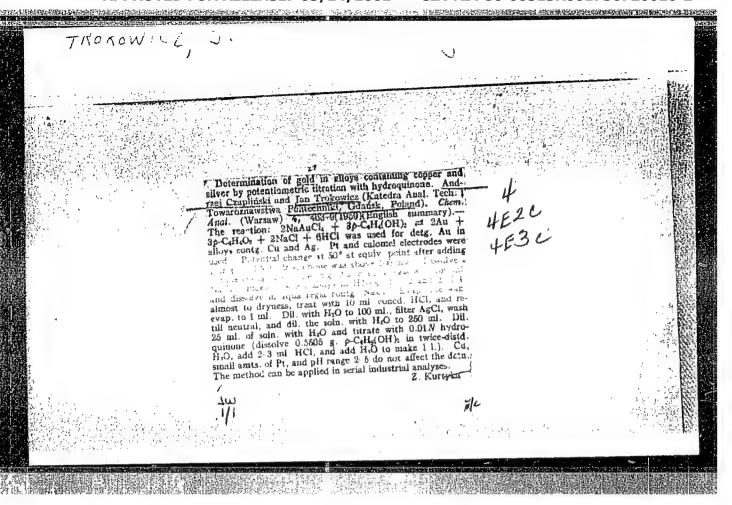
SUB CODE: MM. SS

ENCL: 00

TROKOWICZ, Danuta

Potentiometric titration of primary aromatic amines with sodium nitrite. Chem anal 8 no.1:107-111 163.

1. Katedra Chemii Ogolnej, Wyzsza Szkola Pedagogiczna, Gdansk.



POLAND

POMPOWSKI, Tadeusz, prof. dr inz; TROKOWICZ, Jan, dr inz.

Department of Technical Analysis, Polytenhie (Katedra Analisy Technicanej i Towaroznawstwa Politechniki), Gdansk - (for both).

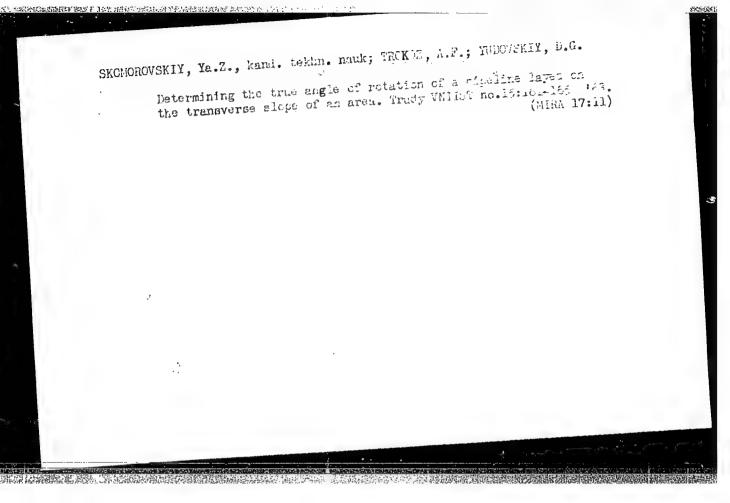
Warnaw, Chemia annlityozna, No 6, Hovember-December 1965, pp 1211-1215.

"Determination of gold in copper concentrates by spectrophotometric method."

TROKOWSKI, R.

"How we conceive cooperation with the milling trade," Gospodaka Zbozowa,
Warazawa, Vol 5, No 6, June 1954, p. 27.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.



TROKSKAYA, Z.I.; TEMKIN, Z.Ye.; KHETAGUROV, G.D., kand. tekhn. nauk

Quality of nonferrous metal bres and the profitableness of their production; discussion of the article by B.F. Novozhilov. Gor. zhur. no.ll:7-ll N '63. (MIRA 17:6)

 Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii, Moskva (for Trokskaya, Temkin).
 Sredneaziatskiy filial Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov, Almalyk (for Khetagurov).

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UKRAINSKIY, M.A., st. nauchm. sotr.; MASKEVICH, M.M.; LODEYSHCHIKOV, V.V., kand. tekhm. nauk; SKOBEYEV, I.K., prof., doktor tekhm. nauk; STAKHEYEV, I.S., kand. tekhn. nauk; KULIKOV, A.V., kand. tokhm. nauk; KULIKOVA, S.Ya., kand. geol.-miner. nauk; FOKROVSKIY, L.A.; ALEKSANDROVA, N.N.; YELANSKIY, A.N., st. nauchm. sotr.; TROKSKAYA, Z.I.; BANDENOK, L.I., nauchm. sotr.; VERIGO. K.N.; TEMKO, V.P., red.

[Gold mining industry in capitalist countries; technical and economic survey] Zolotodobyvaiushchaia promyshlennost' kapitalisticheskikh stran; tekhniko-ekonomicheskii obzor. Moskva, 1963. 337 p. (MIRA 17:6)

- l. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallugii.
- 2. TSentral'nyy nauchno-issledovatel'skiy institut informatsii
- i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallurgii (for Ukrainskiy, Yelanskiy, Verigo).

Trokskaya, Z.I. AUTHOR:

SOV/136-58-10-26/27

TITLE:

Germanium Production in Capitalist States (Proizvodstvo

germaniya v kapitalisticheskikh stranakh)

Tsvetnyye Metally, 1958, Nr 10, pp 97 - 101 (USSR) PERIODICAL:

ABSTRACT: The author surveys literature on germanium production in the USA, UK, Belgium, Africa and Japan.

There are 1 table and 24 references, 18 of which are

English, 1 French, 1 German and 4 Soviet.

Card 1/1

CIA-RDP86-00513R001756720010-2" APPROVED FOR RELEASE: 03/14/2001

TROLLE, G. A.

DMITRIYEVA, L. V. - laborant i, KELLER, I. M. - kand. tekhn. nauk, SMOLYAKOVA, Z. A. - inzh. CHERTKOVA, A. N. - laborant, TROLLE, G. A. - laborant

Respublikanskiy nauchno-issledovatel'skiy institut mestnykh stroitel'nykh materialov (RCSNIIMS)

Razrabotka Metodiki Bybora Optimal'nogo Rezhima Sushkikirpicha

Page 103

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950, Moscow 1951

TROMBACHEV, S.

Soedinenie morei. Connecting the seas. (Vokrug sveta, 1951, no. 2, p. 2-4, illus.). Discusses the achievement in canal construction, pointing out that the Volga-Don-Azov Waterway is not yet completed. Slated to be put into operation in Spring of 1952. DLC: Gl.V6

SO: SOVIET TRANSFORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

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RUMBALHEV, Do Fo

OFFENGENDEN, Samuil Rafailovich, kandidat tekhnicheskikh nauk; PANADIADI,

A.D., kandidat sel'skokhozyaystvennykh nauk; TROMBACHEV, S.P., inzhener,
[deceased]; YARUSHIN, M.I., inzhener; KREMEHETSKIY, H.D. kandidat
sel'skokhozyaystvennykh nauk; KAGAN, G.S., inzhener; NIKOLAYEV,I.G.,
inzhener; TRUBACHEVA, Ye.G., kul'turtekhnik; SHKLYAREVSKIY, A.I.,
redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor.

[Operation of irrigation and drainage systems] Ekspluatatsiia gidro-meliorativnykh sistem. Pod red.S.R. Offengendena. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1956. 535 p.

(Irrigation) (Drainage)

\$/0166/64/000/002/0059/0063

ACCESSION NR: AP4038422

AUTHOR: Khrushchev, B. I.; Trombachev, Yu. T.; Petrunin, V. F.

TITLE: Semiconductor surface barrier counters

SOURCE: AN UzSSR. Izv. Seriya fiziko-matematicheskikh nauk, no. 2, 1964, 59-63

TOPIC TAGS: transistorized counter, surface barrier counter, silicon plate, nickel plating, thermal neutron, magnetic field, gamma radiation background

ABSTRACT: The authors developed a method for production of semiconductor counters. In order to preserve the life span of the minority charge carriers and their mobility, the counters were prepared of n-type silicon with a specific resistance of 300 ohm/cm, 0.4-1 mm thick of a square or rectangular shape and an area from 1mm² to 1 cm^2 . The completed counters were tested on an α -source with a 5.6 MeV energy of α -particles. The tests were conducted in magnetic fields with magnitudes up to 12,000 erg. The authors concluded that silicon surface-barrier counters containing boron-10 may be used for counting thermal neutrons even in the presence of strong magnetic fields. The counters must, however, be protected against effects of light sources, because of their extreme sensitivity toward a γ -background. Orig. art. has: 5 figures and 1 equation.

Card 1/2

ACCESSION NR: AP4038422

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics AN UzSSR)

SUBMITTED: 26Aug63 DATE ACQ: 26Jun64 ENCL: 00

SUB CODE: NP NO REF SOV: 008 OTHER: 002

ROMBCHINSKIY

POLAND/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour

: Referat Zhur - Khimiya, No 3, 1957, 7453

Author

: Sventoslavskiy and Trombehinskiy

Inst

: Polish Academy of Sciences

Title

: Application of the Method of Intersecting Isobars to the

Investigation of 3-Component Saddle-Point Azeotropes.

XXII.

Orig Pub

: Byul. Pol'sk. AN, 1955, Section 3, Vol 3, No 11, 605-609

Abstract

: The method of intersecting isobars is proposed for the precise determination of the composition and the boiling point temperature of 3-component positive-negative azeotropes. The method comoines distillation with ebulliometric measurements and is based on four independent chulliometric megsurements on the four section of the top-isobar. In all these measurements the starting liquid is the

main fraction obtained from the fractional

Card 1/2

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